

***BRUNING***

COPYFLEX

INSTRUCTION MANUAL

FOR

MODEL 200

CHARLES BRUNING COMPANY, INC

LOCATION  
**CHICAGO**

REGISTER NO.

**C 62111**

**MACHINE SERIAL #** 200381

**LAMP FAILURE REPORT CARD**

To file claim for Defective Lamp Credit, this card must be COMPLETELY filled out when failure occurs. Attach to the Defective Lamp and return within 60 days EXPRESS PREPAID, in an approved shipping container, to the nearest BRUNING Branch or Distributor.

M.M. PART NO. 77099 SERIAL NO. 530-EL

DATE INSTALLED 7/5/60 DATE REMOVED \_\_\_\_\_

COMPLETE DESCRIPTION OF THE FAILURE \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

Signature

Date

**IMPORTANT**

User is to retain this Lamp Failure  
Report Card until such time as  
the Guarantee Period expires.

# model 200 INSTRUCTION MANUAL

SERIAL # - 200381

GE #2310 - part # 17099 (light bulb - #810)

This MANUAL is presented as an introduction to initial machine use. To avail yourself of the fullest possibilities, uses, and optional equipment, call the nearest Bruning Representative.

The CHARLES BRUNING COMPANY guarantees this equipment for SIX MONTHS after installation, and will replace, within this period, any parts found defective due to material or workmanship.

The LAMP is covered by a SEPARATE Guarantee, providing the Lamp Guarantee Card, which will be found attached to the Lamp, is properly filled in and mailed to the Factory immediately following installation. Lamp breakage is not covered.

The CHARLES BRUNING COMPANY reserves the right to modify specifications or design without incurring the obligation to change machines already sold.

**BRUNING**

CHARLES BRUNING COMPANY • INC

## BRANCHES

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PITTSBURGH 98, PA. .... 505 RIDGE AVE.  
PITTSBURGH 99, PA. .... 505 RIDGE AVE.  
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## DISTRIBUTORS

LITTLE ROCK, ARK. .... LITTLE ROCK BLUE PRINT CO. 310 CENTER ST.  
MEMPHIS 1, TENN. .... S. C. YOUNG & CO., 115 MADISON AVE.

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Charles Bruning Company (Canada) Ltd.

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PORTLAND 4, ORE. .... 817 S. W. THIRD AVE.  
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ROCHESTER 4, N.Y. .... 114 SOUTH AVE.  
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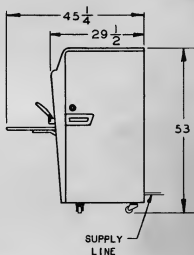
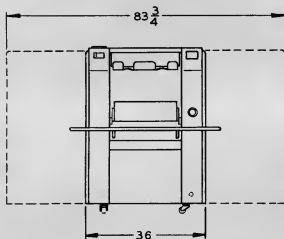
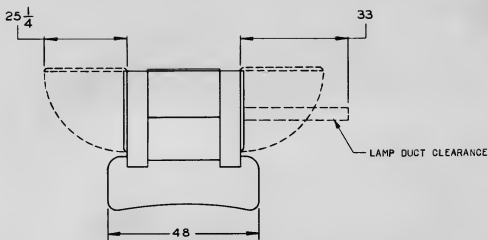
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1964



#### WEIGHT:

NET - 665 POUNDS  
 CRATED - ONE CRATE OF 760 POUNDS  
 CRATED FOR EXPORT -  
 ONE CRATE OF 800 POUNDS

#### CRATE SIZES:

DOMESTIC - ONE CRATE  
 DEPTH 34 INCHES  
 HEIGHT  $57\frac{1}{2}$  INCHES  
 WIDTH  $41\frac{1}{2}$  INCHES  
 EXPORT - ONE CRATE  
 DEPTH 35 INCHES  
 HEIGHT  $61\frac{1}{2}$  INCHES  
 WIDTH  $39\frac{1}{2}$  INCHES

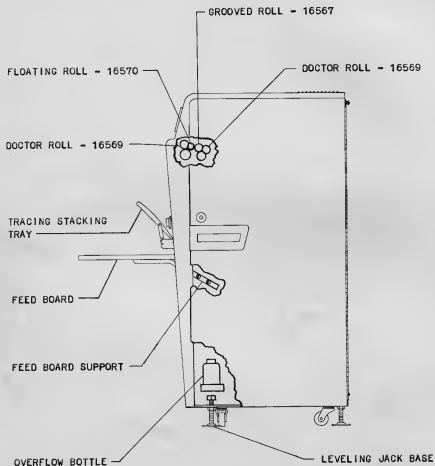
#### POWER DEMAND

115 VOLTS  
 60 CYCLES  
 SINGLE PHASE  
 24.2 AMPERES

B.T.U. DISSIPATION  
 10,000 PER HR. MAX.

EXHAUST AIR VOLUME  
 208 C.F. PER MIN.

FIGURE 1 SHOWS THE ASSEMBLED POSITION OF THE EQUIPMENT FOUND DISASSEMBLED IN THE UNCRATING OF THE MACHINE. THE PARTS AS IDENTIFIED BY THIS FIGURE SHOULD BE ASSEMBLED IN THEIR RESPECTIVE POSITIONS.



TO LEVEL THE MACHINE (TO PROVIDE UNIFORM DEVELOPER FLUID DEPTH)

- A PLACE THE LEVELING JACK BASES (P-#16432) UNDER THE FOUR JACK SCREWS.
- B RAISE THE PRINT RECEIVING TRAY, AND THE DEVELOPER ROLL ASSEMBLY TO THE "UP" POSITION AS SHOWN IN FIGURE 3.
- C WITH THE DRAIN TUBE ASSEMBLY (SEE FIGURE 3) IN AN UPRIGHT, OR CLOSED POSITION, FILL THE TROUGH WITH WATER TO APPROXIMATELY 1/8" DEPTH.
- D USING THE WATER IN THE TROUGHS AS A SPIRIT LEVEL, ADJUST THE FOUR JACK SCREWS UNTIL THE MACHINE IS LEVEL WHEN OFF ITS CASTERS.

TO CONNECT THE SUPPLY LINE (SEE PAGE 1)

THE SUPPLY LINE SHOULD BE NO.10 OR HEAVIER WIRE, THROUGH RIGID OR FLEXIBLE CONDUIT, TO SUPPLY 30 AMPERES AT 110 VOLTS. IT IS RECOMMENDED THAT THE SUPPLY LINE BE FREE OF ANY EQUIPMENT WHICH MIGHT CAUSE EXCESSIVE VOLTAGE FLUCTUATIONS.

TO INSTALL THE LAMP (SEE FIGURE 2)

AFTER THE MACHINE HAS BEEN SET UP, LEVELED, AND CONNECTED, INSTALL THE LAMP AS FOLLOWS:

- A SNAP BOTH THE LAMP SWITCH AND THE MAIN SWITCH TO THE "OFF" POSITION.
- B REMOVE LAMP COVERS FROM BOTH ENDS OF CYLINDER HOUSING.
- C LOOSEN THE KNURLED SCREWS LOCATED AT EACH END OF THE DUCT ASSEMBLY SLIDE.
- D SLIDE THE DUCT OUT OF THE MACHINE - USING CARE NOT TO ALLOW IT TO FALL AGAINST THE CYLINDER WHEN FULLY DISENGAGED.
- E UNPACK THE LAMP, USING CARE AS THIS IS A FRAGILE PART. ANY FOREIGN SUBSTANCE OR FINGER PRINTS WILL BAKE INTO THE SURFACE OF THE LAMP. IT IS A GOOD PRACTICE TO USE PAPER AROUND THE LAMP WHEN HANDLING IT.
- F FASTEN THE LAMP TO THE DUCT ASSEMBLY.
- G SLIDE LAMP-DUCT ASSEMBLY INTO CYLINDER.
- H TIGHTEN KNURLED SCREW CLAMPS.



TO INSTALL THE LAMP (CONTINUED)

- J REPLACE HOUSING COVERS. THESE COVERS SHOULD ALWAYS BE ON WHEN THE LAMP IS LIGHTED.
- K SNAP LAMP SWITCH TO "ON" POSITION.

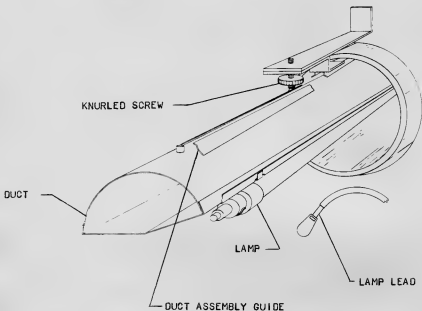
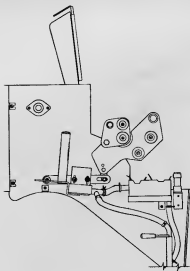
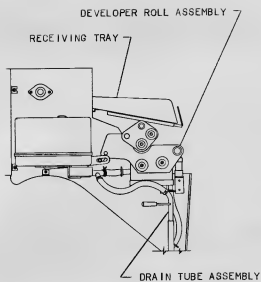


FIGURE 2

TO PUT DEVELOPER SOLUTION INTO MACHINE.

- A GRADUATE AND A STIRRING ROD ARE PROVIDED TO MIX THE DEVELOPER. FOLLOW THE DIRECTIONS PRINTED ON THE DEVELOPER POWDER PACKAGE.
- AFTER MIXING THE DEVELOPER AND FILLING THE PLASTIC SUPPLY BOTTLE, PROCEED AS FOLLOWS:
- A PLACE THE DRAIN JARS IN THEIR RESPECTIVE HOLDERS AT EACH SIDE OF THE MACHINE.
  - B SEE FIGURE 3. RAISE BOTH THE PRINT TRAY DEVELOPER-YOKE ASSEMBLY AND THE DRAIN TUBE ASSEMBLY TO THE "UP" POSITION.
  - C PLACE PLASTIC SUPPLY BOTTLE INTO POSITION. THE TROUGH FLUID LEVEL HAS BEEN ADJUSTED AT THE FACTORY TO PROVIDE A DEVELOPER DEPTH OF  $1/8$ " IN EACH TROUGH WITH THE DEVELOPER ROLLS IN THE "UP" POSITION.



#### DELIVERY CONTROL (SEE FIGURE 4)

PERMITS THE CHOICE OF DELIVERY OF THE PRINT PRIOR TO ITS ENTRANCE INTO THE DEVELOPER SECTION AND ELIMINATES THE TRAVEL CIRCUIT THROUGH THE HEATER SECTION. THIS IS PARTICULARLY SUITABLE FOR DELIVERY OF FILM PRINTS, WHICH SHOULD NOT BE ALLOWED TO GO THRU THE DRYER SECTION.

#### DRYNESS (SEE FIGURE 5)

ADJACENT TO THE LAMP SWITCH ON THE JUNCTION BOX IS A THREE-POSITION (LOW, MEDIUM, HIGH) HEATER SWITCH. THIS SWITCH CONTROLS THE FOUR HEATERS IN THE FOLLOWING MANNER:

- 1 THE LOW POSITION CONTROLS 600 WATTS OF HEAT WHICH IS TURNED ON WITH THE MASTER SWITCH, AND REMAINS ON ALL THE TIME THE MASTER SWITCH IS ON.
- 2 MEDIUM CONTROLS AN ADDITIONAL 300 WATTS-HEATER ELEMENT, PROVIDING A TOTAL OF 900WATTS.
- 3 HIGH CONTROLS THE FOURTH 300 WATT HEATER, PROVIDING A TOTAL OF 1,200 WATTS

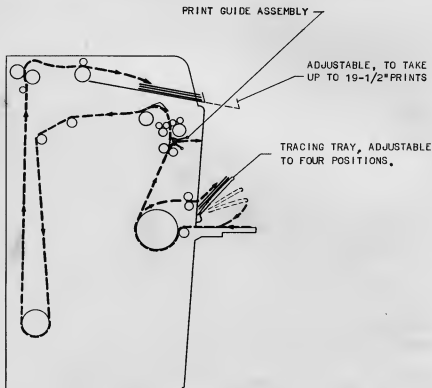
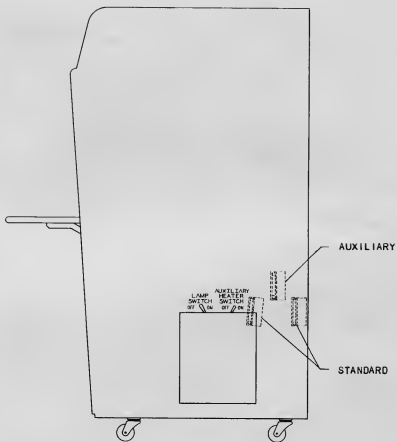


FIGURE 4



VACUUM CONTROL (SEE FIGURE 6) IS A FACTORY SET ADJUSTMENT.

THIS SETTING IS ESTABLISHED FOR THE BEST OVER-ALL PERFORMANCE OF THE MACHINE. IF, HOWEVER, SPECIAL REQUIREMENTS OCCUR, ADJUSTMENT OF THE VACUUM MAY BE MADE BY LOOSENING THE ACORN NUT WHILE HOLDING THE ADJUSTING ARM. ADJUST THE VACUUM CONTROL TO THE DESIRED POSITION AND AGAIN TIGHTEN THE ACORN NUT.

1. IF BOTH THE PRINT AND THE TRACING TEND TO GO UP, OR FOLLOW THE BANDS PAST THE POINT OF SEPARATION, AN ADJUSTMENT OF THE VACUUM CONTROL TOWARD THE "MINIMUM" POSITION SHOULD BE MADE.

THE SEPARATOR ASSEMBLY MAY ALSO NEED ADJUSTMENT (SEE FIGURE 6) UNDER THESE CONDITIONS, TO RAISE THE DIRECTION OF THE AIR HIGHER, AND TOWARDS THE BANDS.

2. IF PRINT AND TRACING FALL AWAY FROM THE BANDS, PRIOR TO REACHING THE SEPARATOR, AN ADJUSTMENT OF THE VACUUM CONTROL TOWARDS THE "MAXIMUM" SHOULD BE MADE.

#### OPERATING MAINTENANCE

THE CONTACT CYLINDER, UNDER NORMAL USE, SHOULD BE CLEANED ONCE A WEEK ON THE INTERIOR, AND TWICE A WEEK ON THE EXTERIOR.

ANY APPRECIABLE DROP IN PRINTING SPEED COULD INDICATE A DIRTY CYLINDER.

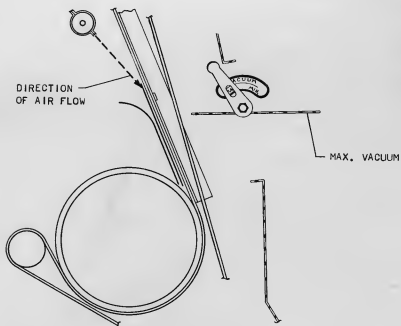
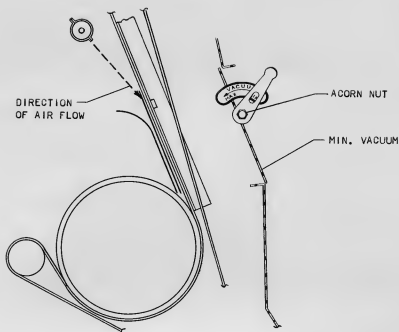
THE LAMP SWITCH SHOULD BE "OFF", AND THE CYLINDER COOL, TO CLEAN THE INTERIOR OF THE CYLINDER. REMOVE THE LAMP-DUOT ASSEMBLY. (SEE FIGURE 2). WITH THE MACHINE RUNNING AT A SLOW SPEED, CLEAN THE CYLINDER WITH A SOFT DAMP CLOTH, FOLLOWED BY DRYING WITH A SOFT DRY ONE.

THE EXTERIOR SURFACE OF THE CYLINDER MAY BE CLEANED, WITH THE MACHINE RUNNING AT A SLOW SPEED, BY FIRST REMOVING THE SCRAPER ASSEMBLY AND WIPING THE CYLINDER WITH A SOFT DAMP CLOTH, AND THEN A DRY ONE. SEE FIGURE 7.

THE DEVELOPER FLUID SYSTEM IS DESIGNED TO GIVE TROUBLE-FREE SERVICE IF MAINTAINED AS FOLLOWS:

1. DAILY: REMOVE THE PLASTIC BOTTLE, AND DRAIN THE TROUGHS. REPLACE THE DRAIN HANDLE TO ITS CLOSED OR UP POSITION, FILL THE TROUGHS WITH WARM WATER, RUN THE MACHINE FOR A FEW MINUTES, AND DRAIN.
2. WEEKLY: DRAIN THE DEVELOPER, RAISE TUBE HANDLE TO UP POSITION, AND SLOWLY POUR 24 OUNCES OF A STANDARD HOUSE-HOLD BLEACH (5% SOLUTION) DIRECTLY INTO DEVELOPER RESERVOIR AND RUN THE MACHINE FOR ABOUT TEN MINUTES.

DRAIN THIS SOLUTION, AND FLUSH OUT WITH CLEAN WATER.



## OPERATING MAINTENANCE (CONTINUED)

THE DEVELOPER ROLLS (GROOVED) INSTALLED IN THE MACHINE SHOULD BE HANDLED WITH CARE. ANY NICK OR DENT WILL IMPAIR THEIR OPERATION. ALSO, AVOID TOUCHING THE ROLLERS WITH THE BARE HANDS OR WITH ANY OILY MATERIAL, AS THIS INTERFERES WITH PICKING UP DEVELOPER SOLUTION. SHOULD THIS OCCUR, THE ROLLERS SHOULD BE POLISHED WITH A VERY FINE ABRASIVE PAPER, SUCH AS POLISHING PAPER, AND THEN CLEANED THOROUGHLY.

THE GROOVES OF THE INITIAL SET OF FACTORY INSTALLED ROLLERS MAY, THROUGH NORMAL USE, EVENTUALLY BECOME CLOGGED, RESULTING IN SPOTTY OR POOR DEVELOPMENT, OR A HEAVY DEPOSIT OF DEVELOPER FLUID AT THE TRAILING EDGE OF THE PRINT. THEY SHOULD THEN BE REPLACED BY THE EXTRA SET OF ROLLERS FURNISHED WITH THE MACHINE.

THE REMOVED ROLLERS SHOULD BE CAREFULLY PACKED IN THE CONTAINER PROVIDED, AND SENT TO THE NEAREST BRUNING OFFICE. THEY WILL BE CLEANED AND RETURNED PROMPTLY.

THE SEPARATOR ADJUSTMENT IS A FACTORY SET ADJUSTMENT. NORMALLY THIS AIR JET IS DIRECTED AT THE VACUUM BREAKER BEHIND THE CONVEYOR BANDS. NO ADJUSTMENT SHOULD BE MADE OF THIS UNIT UNTIL IT HAS BEEN DETERMINED THAT ALL OTHER RELATED FUNCTIONS ARE OPERATING PROPERLY. SEE FIGURE 7.

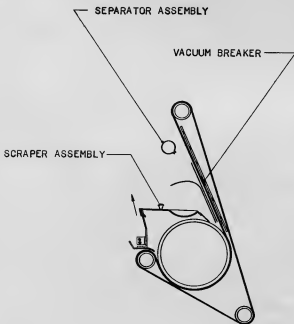


FIGURE 7

**model 200**

SERIAL NO. \_\_\_\_\_

**BRUNING**

# **COPYFLEX MACHINE**

## **PARTS MANUAL**

IN ORDERING PARTS, OR REQUESTING INFORMATION RELATIVE TO THIS  
MACHINE, ALWAYS GIVE THE SERIAL NUMBER WHICH IS STAMPED ON THE PLATE  
LOCATED ON THE ELECTRICAL PULL BOX DOOR.

### **CHARLES BRUNING COMPANY INC.**

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NEW YORK, N.Y.	BOSTON, MASS.	PITTSBURGH, PA.	DETROIT, MICH.
HOUSTON, TEXAS.	CLEVELAND, OHIO	SEATTLE, WASH.	PHILADELPHIA, PA.
MILWAUKEE, WIS.	ST. LOUIS, MO.	SAN FRANCISCO, CALIF.	PORTLAND, ORE.
DALLAS, TEXAS.	CINCINNATI, OHIO	DENVER, COLO.	
CANADA -	TORONTO	MONTREAL	VANCOUVER



100

# REPORTED MACHINE

100

100

100

100

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MODEL 200 CABINET PARTS  
SERIAL NO. 200181 & UP

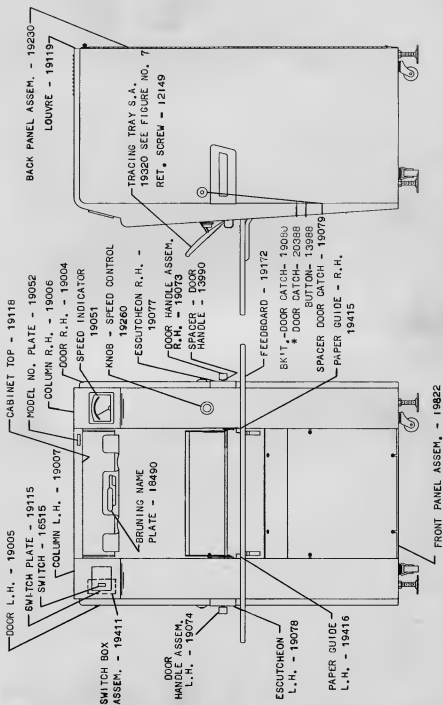


FIGURE 1

RIGHT END VIEW WITH CABINET REMOVED  
SERIAL NO. 200331 & UP



# MODEL 200

## LEFT END VIEW WITH CABINET REMOVED SERIAL NO. 200331 & UP

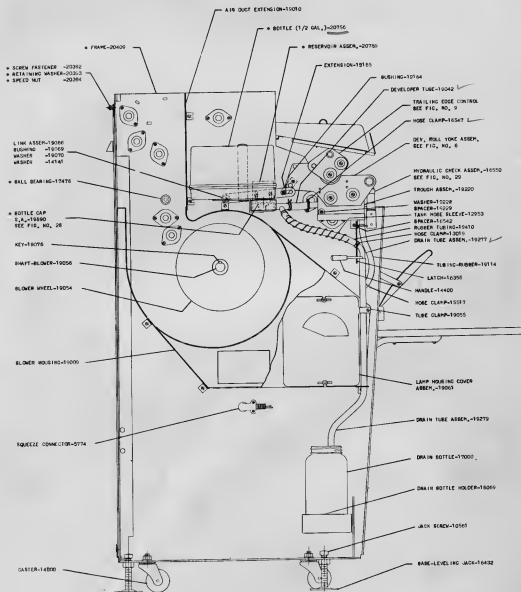
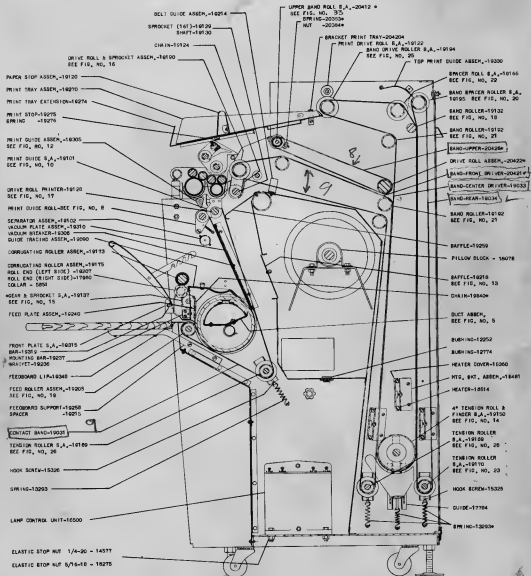


FIGURE 3

MODEL 200

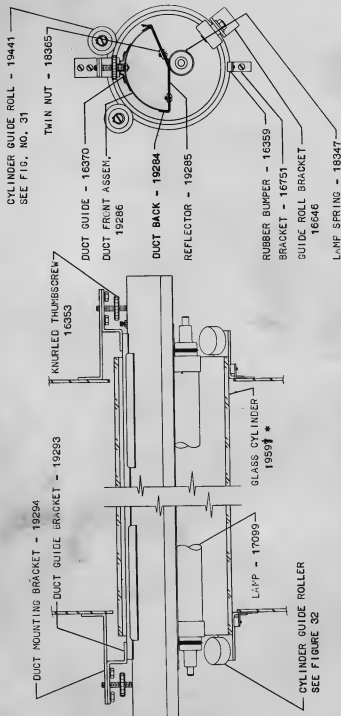
CROSS SECTION THRU CENTER  
OF MACHINE

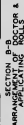
SERIAL NO. 200331 & UP



8  
19033

SECTION THRU CENTER OF CYLINDER  
SERIAL NO. 2001 & UP

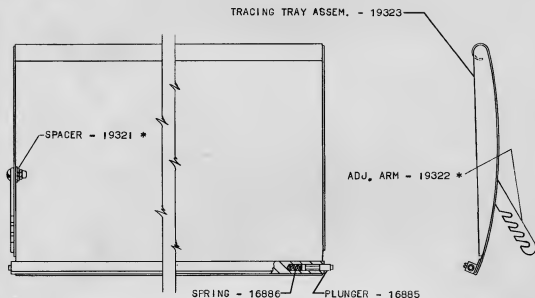




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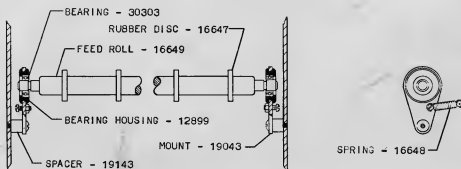
TRACING TRAY S.A. - 19320  
SERIAL NO. 200150 & UP

FIGURE 7

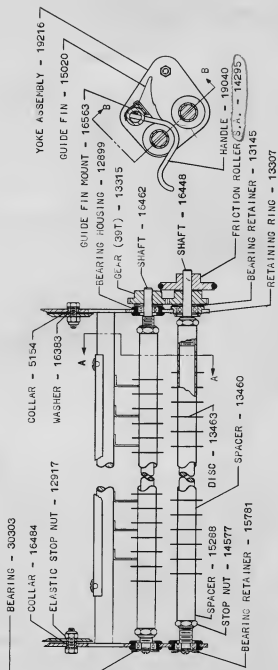


PRINT GUIDE ROLL  
SERIAL NO. 2001 & UP

FIGURE 8







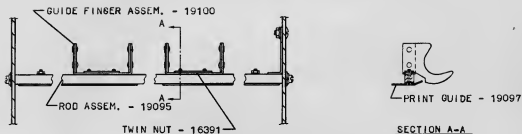
SECTION A-A

SECTION D-B

FIGURE 9

PRINT GUIDE S.A. - 19101  
SERIAL NO. 2001 & UP

FIGURE 10



SEPARATOR BLOWER ASSEMBLY - 19243  
SERIAL NO. 200150 & UP

FIGURE 11

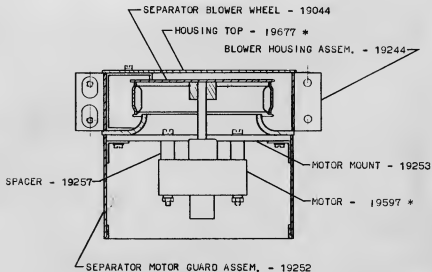


FIGURE 12

PRINT GUIDE ASSEMBLY  
19305  
SERIAL NO. 2001 & UP

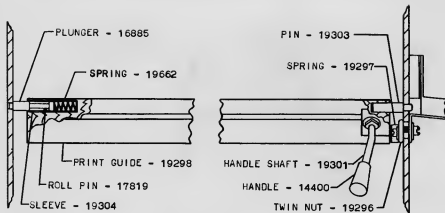
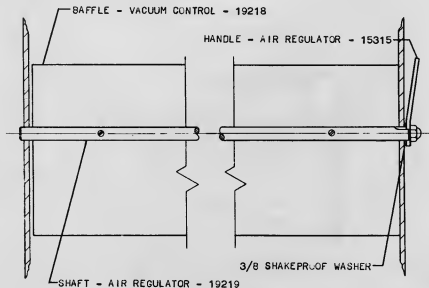


FIGURE 13

BAND VACUUM CONTROL  
SERIAL NO. 2001 & UP



4" TENSION ROLLER & FINGER S.A. - 19150  
SERIAL NO. 2001 & UP

FIGURE 14

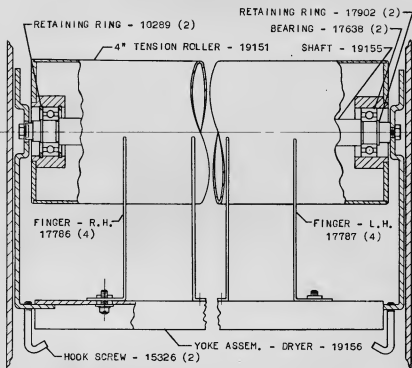


FIGURE 15

GEAR & SPROCKET S.A. - 19137  
SERIAL NO. 200271 & UP

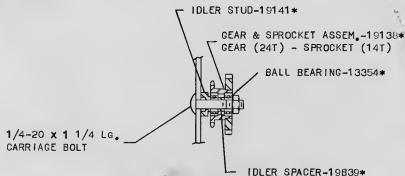


FIGURE 16

DRIVE ROLLER & SPROCKET - 19190  
SERIAL NO. 2001 & UP

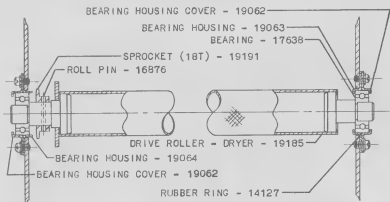


FIGURE 17

PRINTER DRIVE ROLLER - 19128  
SERIAL NO. 2001 & UP

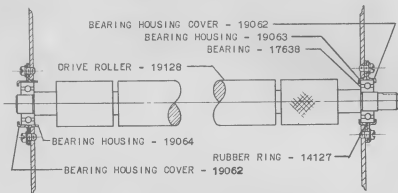
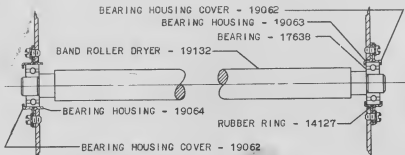


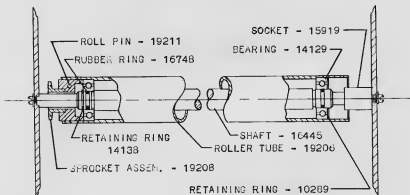
FIGURE 18

BAND ROLLER - DRYER - 19132  
SERIAL NO. 2001 & UP



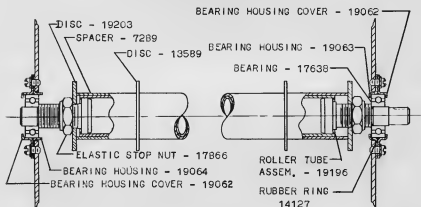
FEED ROLLER ASSEM. - 19205  
SERIAL NO. 2001 & UP

FIGURE 19



BAND SPACER ROLLER S.A. - 19195  
SERIAL NO. 2001 & UP

FIGURE 20



BAND ROLLER - 19192  
SERIAL NO. 2001 & UP

FIGURE 21

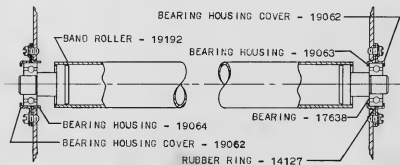


FIGURE 22

SPACER ROLLER S.A. - 19166  
SERIAL NO. 2001 & UP

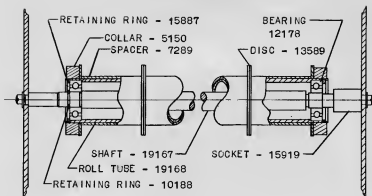


FIGURE 23

TENSION ROLLER S.A. - 19170  
SERIAL NO. 2001 & UP

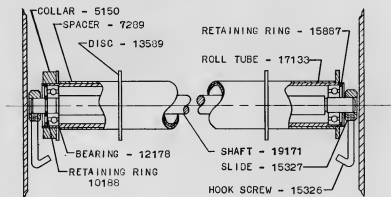
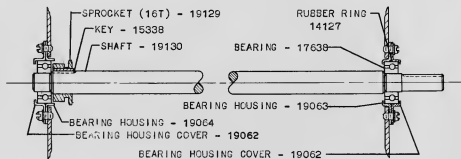


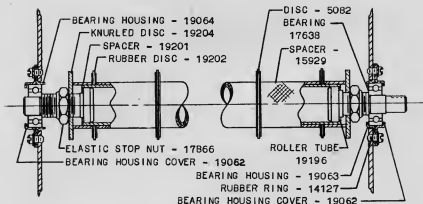
FIGURE 24

DRIVE SHAFT - 19130  
SERIAL NO. 2001 & UP



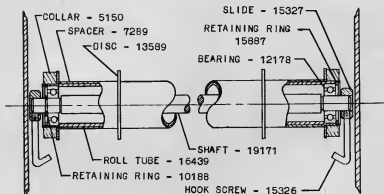
BAND DRIVE ROLLER S.A. - 19194  
SERIAL NO. 2001 & UP

FIGURE 25



TENSION ROLLER S.A. - 19169  
SERIAL NO. 2001 & UP

FIGURE 26



CORRUGATING ROLL HOLDER  
SERIAL NO. 2001 & UP

FIGURE 27

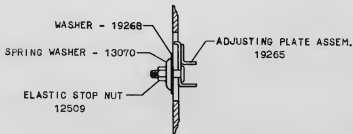




FIGURE 28

BOTTLE CAP  
S.A.-19890  
SERIAL NO. 200331 & UP \*

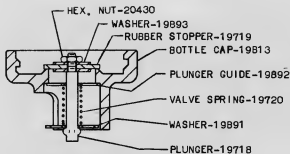


FIGURE 29

HYDRAULIC CHECK ASSEM. - 16550  
SERIAL NO. 2001 & UP

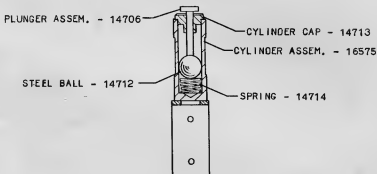
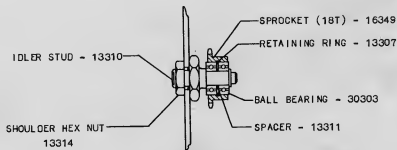


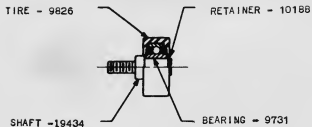
FIGURE 30

IDLER S.A. - 16347  
SERIAL NO. 2001 & UP



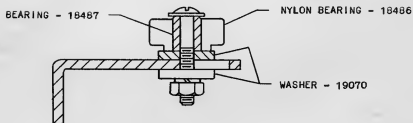
CYLINDER GUIDE ROLLER - 19441  
SERIAL NO. 2001 & UP

FIGURE 31



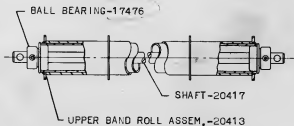
CYLINDER GUIDE ROLLER  
SERIAL NO. 2001 & UP

FIGURE 32



UPPER BAND ROLL S.A. - 20412 \*  
SERIAL NO. 200331 & UP

FIGURE 33





THIS DRAWING DOES NOT APPLY  
TO YOUR MACHINE

MODEL 200

MODEL 200  
WIRING DIAGRAM  
SERIAL NO. 200150 & UP

